

CD107PCT.ST25.txr
SEQUENCE LISTING

<110> CropDesign N.V.

<120> Plants having modified growth characteristics and method for making the same

<130> CD-107-PCT

<150> EP 03104764.0

<151> 2003-12-17

<150> US 60/531,866

<151> 2003-12-22

<160> 7

<170> PatentIn version 3.3

<210> 1

<211> 1380

<212> DNA

<213> Nicotiana tabacum

<400> 1

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gaagtgtctt	ctaatttggg	agttgaaagt	aaagttgaaag	ttaaaagtga	attggaaaca	480
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<211> 459

<212> PRT

<213> Nicotiana tabacum

<400> 2

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Pro Leu Asn Thr Arg Gln Asp Gln Gln Pro Ser Tyr Thr Lys Thr Ser		
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Pro Gln Lys Pro Ser Asn Ser Asp Gln Arg Ile Glu Asn Ile Cys Glu		
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Ile Gln Phe Asn Lys Ser Glu Ser Lys Asp Gly Phe Asp Pro Phe Gly		
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Glu Leu Val Thr Ser Gly Lys Arg Asn Pro Lys Gly Tyr Ser Leu Thr		
100	105	110
Asn Val Phe Glu Cys Pro Val Cys Gly Ser Gly Phe Val Ser Glu Glu		
115	120	125
Glu Val Ser Thr His Ile Asp Ser Cys Leu Ser Ser Glu Val Ser Ser		
130	135	140
Asn Leu Gly Val Glu Ser Lys Val Glu Val Lys Ser Glu Leu Glu Thr		
145	150	155
Cys Val Ser Ala Tyr Val Ser Gly Lys Pro Ser Glu Gly Ser Val Glu		
165	170	175
Val Val Ile Lys Leu Leu Lys Asn Ile Val Lys Glu Pro Glu Asn Ala		
180	185	190
Lys Phe Arg Lys Ile Arg Met Gly Asn Pro Lys Ile Lys Gly Ala Ile		
195	200	205
Gly Asp Val Val Gly Val Glu Leu Leu Glu Phe Val Gly Phe Glu		
210	215	220
Leu Lys Glu Glu Gly Glu Ile Trp Ala Val Met Asp Val Pro Ser		
225	230	235
Glu Glu Gln Leu Val Met Leu Lys Asn Val Val Ser Leu Leu Glu Pro		
245	250	255
Lys Lys Val Glu Glu Leu Ala Ser Leu Ser Gln Val Lys Ala Ser Glu		
260	265	270
Pro Val Glu Pro Lys Lys Ile Asp Arg Gln Ile Arg Val Phe Phe Ser		
275	280	285
Val Pro Glu Ser Val Ala Ala Lys Ile Glu Leu Pro Asp Ser Phe Phe		
290	295	300
Asn Leu Ser Arg Glu Glu Leu Arg Arg Glu Ala Glu Met Arg Lys Lys		
305	310	315
Lys Leu Glu Asp Ser Lys Leu Leu Ile Pro Lys Ser Tyr Arg Glu Lys		
325	330	335

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Gln Ala Lys Ala Ala Arg Lys Lys Tyr Thr Lys Ser Ile Ile Arg Val
 340 345 350

Gln Phe Pro Asp Gly Ala Leu Leu Gln Gly Val Phe Leu Pro Ser Glu
 355 360 365

Pro Thr Ser Ala Leu Tyr Glu Phe Val Ser Ala Ala Leu Lys Glu Pro
 370 375 380

Ser Leu Glu Phe Glu Leu Leu His Pro Val Leu Val Lys Lys Arg Val
 385 390 395 400

Ile Pro His Phe Pro Ala Ala Gly Glu Arg Ala Val Thr Val Glu Glu
 405 410 415

Glu Asp Leu Val Pro Ala Ala Leu Leu Lys Phe Lys Pro Ile Glu Thr
 420 425 430

Asp Ser Val Val Phe Thr Gly Leu Cys Asn Glu Leu Leu Glu Ile Ser
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Glu Pro Leu Glu Thr Gly Ser Val Ala Ser Ser
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<210> 3

<211> 1311

<212> DNA

<213> Saccharum officinarum

<220>

<221> misc_feature

<222> (277)..(279)

<223> n can be any nucleotide

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caccccgctg cccgcttcctc aaacccttagc ccaaaccctca	ggcccgcgtcc	180
tgcgcaccta ccccgccccac tttaaccacc gatttgacct	cttcacgccc	240
tactcctccc gccgccccga cgcgAACGGC acccggnnnng	ccgtcgccac	300
cccaagctgcg gagacgcgtt tccgtccgag ctcgcccgtct	cgtcgctgc	360
ctcgcgtcgg cggggggcgc ccgcgcgcgc	ccgcgcgcgt	420
ccgccccggc cctccgtaga ggtggtcaaa cgctgctgg	acctcgccgc	480
ggcaacgata agttcaggcg ggtgagattg gtaaccggc	cgaccgcct	540
gacagggtatg gcggggttggaa gctcctggag gccgtcggtct	cgatggcgtc	600
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agggccgtcc tcctgctcgaa gggggcacac ccctctgcgc	ggatgaggcc	720
gaggccaagg agagctgcag caatgtgtct gacgtgcagg	ggccctggca	780
cgccagatc ggttatttgt ctctgttctt gggagttcta	gacgttgcagg	840
gattctttt acaagcttag tggtgaggag ataaggaatg	agggtgctaa	900
aggttagaac aatctcgatt gctgatacca aagtcttaca	gactattgtat	960
gctcgacaga agtataaaca agcagtcatcgat	ttccagatag	1020
cagggcataat tccttaccagg agaggccact agttcaactgt	aatgatttt	1080
ctgaagcaat caggttttggaa attcgaactt atctctccag	atgagttcgat	1140
gtgccccatt ttccaaaccc gggagagcgg gcacgcaccc	cacatctgtgt	1200
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<210> 4

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<211> 436

<212> PRT

<213> Saccharum officinarum

<220>

<221> MISC_FEATURE

<222> (93)..(93)

<223> Xaa can be any amino acid

<400> 4

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Pro	Ser	Pro	Asn	Leu	Arg	Pro	Ala	Pro	Lys	Arg	Thr	Ser	Pro	Pro	Thr
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Pro	Pro	Thr	Leu	Thr	Thr	Asp	Leu	Thr	Ser	Phe	Thr	Pro	Leu	Val	Cys
					65		70			75			80		

Tyr	Ser	Ser	Arg	Arg	Pro	Asp	Ala	Asn	Gly	Thr	Ala	Xaa	Ala	Val	Ala
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Thr	Val	Ala	Cys	Pro	Ser	Cys	Gly	Asp	Ala	Phe	Pro	Ser	Glu	Leu	Ala
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Val	Ser	Glu	His	Leu	Asp	Gly	Cys	Leu	Ala	Ser	Ala	Gly	Gly	Ala	Arg
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Ala	Arg	Ala	Ala	Ala	Tyr	Leu	Ala	Ala	Asp	Pro	Pro	Pro	Pro	Ala	Ala
					130			135			140				

Ser	Val	Glu	Val	Val	Lys	Arg	Leu	Leu	Gly	Asn	Leu	Leu	Arg	Glu	Pro
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Gly	Asn	Asp	Lys	Phe	Arg	Arg	Val	Arg	Leu	Gly	Asn	Pro	Arg	Ile	Lys
					165			170			175				

Glu	Ala	Leu	Ala	Asp	Arg	Asp	Gly	Gly	Val	Glu	Leu	Leu	Glu	Ala	Val
					180			185			190				

Gly	Phe	Thr	Val	Gly	Asp	Glu	Gly	Gly	Glu	Pro	Phe	Ala	Val	Met	Asp
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Glu	Val	Pro	Ser	Asp	Pro	Arg	Leu	Asn	Gly	Ile	Arg	Arg	Ala	Val	Leu
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Leu	Leu	Glu	Gly	Ala	His	Pro	Ser	Ala	Pro	Pro	Val	Lys	Ala	Glu	Ala
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Glu	Ala	Lys	Glu	Ser	Cys	Ser	Asn	Val	Ser	Asp	Val	Gln	Glu	Gly	Ala
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Lys	Thr	Ile	Asp	Arg	Gln	Ile	Arg	Val	Phe	Val	Ser	Val	Pro	Gly	Ser

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260

265

270

Ser Met Ala Gln Asn Asp Val Pro Asp Ser Phe Tyr Lys Leu Ser Gly
 275 280 285

Glu Glu Ile Arg Asn Glu Ala Lys Met Arg Arg Glu Arg Leu Glu Gln
 290 295 300

Ser Arg Leu Leu Ile Pro Lys Ser Tyr Lys Glu Lys Gln Ala Leu Ala
 305 310 315 320

Ala Arg Gln Lys Tyr Lys Gln Ala Val Ile Arg Val Gln Phe Pro Asp
 325 330 335

Arg Met Ile Leu Gln Gly Ile Phe Leu Pro Gly Glu Ala Thr Ser Ser
 340 345 350

Leu Tyr Glu Phe Val Thr Ser Ala Leu Lys Gln Ser Gly Leu Glu Phe
 355 360 365

Glu Leu Ile Ser Pro Ala Ile Pro Lys Pro Arg Val Val Pro His Phe
 370 375 380

Pro Asn Pro Gly Glu Arg Ala Arg Thr Leu Gln Glu Glu Leu Val
 385 390 395 400

Pro Ser Ala Leu Leu Lys Phe Ile Pro Lys Glu Thr Asp Ser Met Val
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Ala Ala Ser Gln
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<210> 5

<211> 3048

<212> DNA

<213> Artificial sequence

<220>

<223> expression cassette comprising GRUBX (1011-2390) operably linked
to the prolamine promoter (1-654) and the T-Zein + T-Rubisco
deltaG terminator (2615-2808 and 2852-3048)

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<211> 1302
<212> DNA
<213> Oryza sativa

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									50	55			60			
Pro	Ser	Ser	Gly	Phe	Ala	Pro	Tyr	Ser	Pro	Leu	Ile	Ser	Thr	Ser	Ser	
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Arg	Arg	Thr	Asp	Pro	Pro	Ala	Gly	Ala	Gly	Ala	Gly	Glu	Asp	Asp	Ala	
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Val	Ala	Cys	Pro	Ser	Cys	Ala	Glu	Pro	Phe	Pro	Ser	Glu	Leu	Ala	Val	
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Arg	Ala	Ala	Ala	Tyr	Leu	Ala	Gly	Asp	Pro	Pro	Ala	Ser	Ala	Val	Glu	
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									165	170			175			
Ala	Asp	Arg	Glu	Gly	Gly	Val	Asp	Leu	Leu	Glu	Ala	Val	Gly	Phe	Arg	
									180	185			190			
Val	Ala	Asp	Glu	Gly	Gly	Glu	Leu	Phe	Ala	Leu	Met	Asp	Glu	Val	Pro	
									195	200			205			
Gly	Asp	Ala	Arg	Leu	Gly	Gly	Ile	Arg	Gln	Ala	Val	Leu	Leu	Glu		
									210	215			220			
Arg	Ala	Arg	Pro	Ser	Thr	Pro	Pro	Gln	Thr	Gln	Ala	Asp	Ala	Lys	Glu	
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Thr Cys Pro Asn Gly Val Ser Glu Glu Gln Gly Ile Lys Lys Pro Val
245 250 255

Asp Arg Gln Ile Arg Val Phe Phe Ser Val Ala Ala Ser Ser Val Ala
260 265 270

Glu Asn Asp Leu Pro Asp Ser Phe Tyr Ser Leu Ser Asn Glu Glu Ile
275 280 285

Arg Asn Glu Ala Lys Met Arg Arg Glu Arg Leu Glu Gln Ser Arg Leu
290 295 300

Leu Ile Pro Lys Ser Tyr Lys Glu Lys Gln Ala Leu Ala Ala Arg Gln
305 310 315 320

Lys Tyr Lys Gln Ala Leu Ile Arg Ile Gln Phe Pro Asp Gly Val Ile
325 330 335

Leu Gln Gly Val Phe Leu Pro Ala Glu Pro Ile Ser Ser Leu Tyr Glu
340 345 350

Phe Val Ala Ser Ser Leu Lys Gln Pro Ser Leu Glu Phe Asp Leu Ile
355 360 365

Cys Pro Ala Gly Pro Arg Thr Arg Val Ile Pro Pro Phe Pro Lys Pro
370 375 380

Gly Glu Gln Ala Arg Thr Leu Arg Asp Glu Asp Leu Val Pro Ser Ala
385 390 395 400

Arg Leu Thr Phe Lys Pro Lys Glu Thr Asp Ser Val Val Phe Thr Gly
405 410 415

Leu Leu Asp Glu Leu Leu Glu Thr Ser Glu Pro Phe Thr Ser Ala Ser
420 425 430

Ser